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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,246	03/10/2004	Uwe Kellner-Werdehausen	074313.0106	5373
7590	04/04/2005			EXAMINER KANG, DONGHEE
Andreas Grubert Baker Botts L.L.P. 910 Louisiana, One Shell Plaza Houston, TX 77002-4995			ART UNIT 2811	PAPER NUMBER

DATE MAILED: 04/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/797,246	KELLNER-WERDEHAUSEN ET AL.

Examiner	Art Unit	
Donghee Kang	2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 12 January 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-4, 15 and 16 is/are rejected.
- 7) Claim(s) 5-14 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 10 March 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 & 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruff et al. (US 6,066,864).

Re claim 1, Ruff et al. teach in Fig.1 a semiconductor component arranged in a semiconductor body comprising at least one integrated radially lateral resistance (13).

Ruff et al. do not explicitly teach $dR/dr \approx K$, where dR is differential resistance of lateral resistance, dr is the differential radius of the lateral resistance and K is an arbitrary constant. However, this feature is inherent in Ruff's device because both have a same structure.

Re claim 2, Ruff et al. teach the sheet resistance Rs is configured in radially location-dependent fashion.

Re claim 3, Ruff et al. teach the differential resistance dR is radially constant.

Re claim 4, Ruff et al. teach the power dissipated in the resistance is radially constant.

Re claim 15, Ruff et al. teach the semiconductor component is formed as a thyristor.

Re claim 16, Ruff et al. teach the thyristor is formed in radially emitter regions.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kuhnert et al. (US 5,204,273):

Kuhnert et al. teach in Figs.1-2 a semiconductor component arranged in a semiconductor body comprising at least one integrated radially lateral resistance (3C).

Kuhnert et al. do not explicitly teach $dR/dr \approx K$, where dR is differential resistance of lateral resistance, dr is the differential radius of the lateral resistance and K is an arbitrary constant. However, this feature is inherent in Kuhnert's device because both have a same structure.

Allowable Subject Matter

4. Claims 5-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Prior art reference, taken along or in combination, do not teach or render obvious that the lateral resistance is arranged in a homogeneously doped resistance region of the semiconductor component, the resistance region radially symmetrical inhomogeneities, which have a different electrically active doping concentration by comparison with the doping of the resistance region.

Response to Arguments

5. Applicant's arguments filed 01-12-05 have been fully considered but they are not persuasive.

Applicant argues that Ruff does not teach a constant resistant value along the radius. This is not convincing. This feature is inherent in Ruff's device because a structure of Ruff is identical to the claimed structure.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 571-272-1656. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Donghee Kang, Ph.D.
Primary Examiner
Art Unit 2811

dhk